

**Notice of Allowability**

Application No.

09/393,300

Examiner

Huy Q. Phan

Applicant(s)

RAHMAN, MOHAMED ANISUR

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to notice of appeal filed 07/06/2006.
2. ☒ The allowed claim(s) is/are 13,15-19,32,34-45 and 47.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

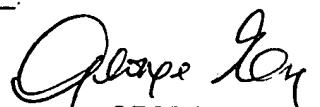
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



GEORGE ENG  
SUPERVISORY PATENT EXAMINER

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gary D. Yacura on 09/01/2006.

a) The claim 13 has been amended as follows:

13. (Currently Amended) A system for directing a data message in a hybrid communications network, including a first wireless system and a second wireless system, the system comprising:

a central database, independent of the first and second wireless system, the central database configured to send update information to update a user profile in the first wireless system in response to service for a mobile station being transferred from the first wireless system to the second wireless system, the user profile being updated to indicate that data messaging services are being provided to the mobile station by the second wireless system based on received transfer information, the transfer information including deregistration information from the first wireless system, wherein the first wireless system is one of a private and a public wireless system, and if the first wireless system is a private wireless system, the second wireless system is a public wireless system, and if the first wireless system is a public wireless system, the second wireless system is a private wireless system; and

a service node for directing a data message for a mobile station through the second wireless system, as facilitated by the updated user profile, to deliver the data message to the mobile station during its operation on the second wireless system.

b) The claim 32 has been amended as follows:

32. (Currently Amended) A method of managing data messages, comprising:

sending deregistration data including at least one of a mobile switching center identifier and a cell identifier from a first wireless system to a central database based on a mobile station transferring from the first wireless system to a second wireless system, the central database being independent of the first and second wireless system and being a database for indicating which wireless system provides data messaging services for the mobile station;

receiving update information for the mobile station from the central database, the update information including an identifier of the second wireless system; and

updating a user profile of the mobile station in at least one of a home location register and a visitor location register based on the received update information, the user profile being updated to indicate that the second wireless system provides data messaging services to the mobile station, and wherein

the first wireless system is one of a private and a public wireless system, and if the first wireless system is a private wireless system, the second wireless system is a public wireless system, and if the first wireless system is a public wireless system, the second wireless system is a private wireless system.

c) The claim 38 has been amended as follows:

38. (Currently Amended) A method of managing data messages, comprising:

sending registration data from a first wireless system to a central database based on a mobile station transferring from a second wireless system to the first wireless system, the central database being independent of the first and second wireless system and being a database for updating a user profile in at least the second wireless system which wireless system provides data messaging services for the mobile station, the central database further configured to receive and store a signaling message containing deregistration information including at least one of a mobile switching center identifier and a cell identifier from the second wireless system; and

receiving a data message for the mobile station from a service node, the service node directing the data message based on the updated user profile in the second wireless system, and wherein

the first wireless system is one of a private and a public wireless system, and if the first wireless system is a private wireless system, the second wireless system is a public wireless system, and if the first wireless system is a public wireless system, the second wireless system is a private wireless system.

d) The claim 44 has been amended as follows:

44. (Currently Amended) A method of managing data messages, comprising:

receiving information based on a mobile station transferring from a first wireless system to a second wireless system, the received information including deregistration data, the deregistration data including at least one of a mobile switching center identifier and a

cell identifier, from the first wireless system and registration data from the second wireless system;

updating a central database based on the received information, the central database being independent of the first and second wireless system and being a database for indicating which wireless system provides data messaging services for the mobile station; and

sending update information to the first wireless system, the update information being used by the first wireless system to update a user profile of the mobile station in at least one of a home location register and a visitor location register to indicate that the second wireless system provides data messaging services to the mobile station, and wherein

the first wireless system is one of a private and a public wireless system, and if the first wireless system is a private wireless system, the second wireless system is a public wireless system, and if the first wireless system is a public wireless system, the second wireless system is a private wireless system.

### **Reasons for Allowance**

2. Claims 13,15-19,32,34-45 and 47 are allowed.

The following is a statement of reason for the indication of allowance:

Connolly et al. (US-5,657,375) disclose a system comprising: a central database (SCP 18), independent of the first and second radio cell coverage area, the central database configured to send update information to update a user profile in the first radio cell coverage area in response to service for a mobile station being transferred from the first radio cell coverage area to the second radio cell coverage area (fig. 8 and cols. 23-

25), the user profile being updated to indicate that data messaging services are being provided to the mobile station by the second radio cell coverage area based on received transfer information, the transfer information including deregistration information from the first wireless system (fig. 8 and cols. 23-25); and a service node (STP) for directing a data message for a mobile station through the second radio cell coverage area, as facilitated by the updated user profile, to deliver the data message to the mobile station during its operation on the second radio cell coverage area (fig. 9 and cols. 25-26).

Sayers et al. (US-6,539,237) teach a first wireless system (fig. 1, public wireless network 15) and a second wireless system (fig. 1, private wireless network 14).

However, Connolly et al. and Sayers et al. do not particularly disclose a system for directing a data message in a hybrid communications network, including a first wireless system and a second wireless system, the system comprising:

a central database, independent of the first and second wireless system, the central database configured to send update information to update a user profile in the first wireless system in response to service for a mobile station being transferred from the first wireless system to the second wireless system, the user profile being updated to indicate that data messaging services are being provided to the mobile station by the second wireless system based on received transfer information, the transfer information including deregistration information from the first wireless system, wherein the first wireless system is one of a private and a public wireless system, and if the first wireless system is a private wireless system, the second wireless system is a public wireless

system, and if the first wireless system is a public wireless system, the second wireless system is a private wireless system; and

a service node for directing a data message for a mobile station through the second wireless system, as facilitated by the updated user profile, to deliver the data message to the mobile station during its operation on the second wireless system.

(for more details see instant specification and fig. 1)

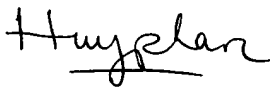
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy Q Phan whose telephone number is 571-272-7924. The examiner can normally be reached on 8AM-6PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Examiner: Phan, Huy Q.

AU: 2617



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SUPERVISORY PATENT EXAMINER

Date: 09/07/2006